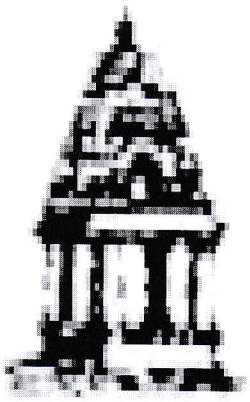
BRUHAT BANGALORE MAHANAGARA PALIKE



Asst.Executive Engineer, Shettyhalli Sub Division,

Name of Work Improvements of C C roads 1st ,8th& 2nd Main Dead End Roads Maheshwari Nagara Ward No.13, Shettyhalli Sub Division.

Est Cost:50.00 Lakhs

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work:Improvements of C C roads 1st ,8th& 2nd Main Dead End Roads Maheshwari Nagara Ward No.13, Shettyhalli Sub Division.

					Est .Cost Rs.50.00 Lakhs				
Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 142/ Item No. 19.1/ PWD SR 2016-17								
	Drain Cross Road	cum	2	30.00	1.00	1.00	60.00		
	17th A Cross		1	35.00	1.00	1.00	35.00		
	8th Cross		1	82.00	0.90	0.45	33.21		
	6th Cross		1	86.00	0.90	0.45	34.83		
	4th Cross (1st Main To2nd Main)		1	84.00	0.90	0.45	34.02		
	5th Cross (3rd Main To SWD Drain)		1	80.00	0.90	0.45	32.40		
	4th Cross (3rd Main To SWD Drain)		1	84.00	0.90	0.45	34.02		
	1st Cross		1	84.00	0.90	0.45	34.02		
	17th A Cross		1	35.00	0.90	0.45	14.18		
	17th B Cross		1	35.00	0.90	0.45	14.18		
	2nd Cross		1	86.00	0.90	0.45	34.83		
	8th Cross		2	82.00	0.45	0.30	22.14		
	6th Cross		2	86.00	0.45	0.30	23.22		
	4th Cross (1st Main To2nd Main)		2	84.00	0.45	0.30	22.68		
	5th Cross (3rd Main To SWD Drain)		2	80.00	0.45	0.30	21.60		
	4th Cross (3rd Main To SWD Drain)		2	84.00	0.45	0.30	22.68		
	1st Cross		2	84.00	0.45	0.30	22.68		
	17th A Cross		2	34.00	0.45	0.30	9.18		
	17th B Cross		2	34.00	0.45	0.30	9.18		
	2nd Cross		2	86.00	0.45	0.30	23.22		
	8th Cross Sides		2	82.00	0.40	0.35	22.96		
	6th Cross		2	86.00	0.45	0.35	27.09		
	4th Cross (1st Main To2nd Main)		2	84.00	0.45	0.35	26.46		
	5th Cross (3rd Main To SWD Drain)		2	80.00	0.45	0.35	25.20		
	4th Cross (3rd Main To SWD Drain)		2	84.00	0.45	0.35	26.46		
	1st Cross		2	84.00	0.45	0.35	26.46		
	17th A Cross		2	34.00	0.45	0.35	10.71		
	17th B Cross		2	34.00	0.45	0.35	10.71		
	2nd Cross		2	86.00	0.45	0.35	27.09		
				3.00			**740.40**	**172.57**	**127770.83**

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2	Removing B S Slab Drain And Stacking Page No25 Item No 5.32 PWD SR 2016-17								
	Drain Cross Road	**Sqm**	2	30.00	1.35		81.00		
			1	35.00	1.35		47.25		
							128.25	**65.72**	**8428.59**
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2 Page No.12/ Item No. 4.3/ PWD SR 2016-17								
	Drain Cross Road	**Cum**	2	30.00	1.00	0.15	9.00		
			1	35.00	1.00	0.15	5.25		
							14.25		
	From Using Dismantaled coarse aggregates								
a	**Available CA**			**9.62**			**11.32**	**4443.52**	**50283.66**
b	**Remaining Balance Qty**						**2.93**	**5159.02**	**15135.65**
4	KSSRB M400-7 Construction Of granular sub -base by providing coarse graded cushed stone aggregates of granite / trap / basalt material speading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achive the desired density. complete asper specification. **By mix in place method for Grading II Material** KSSRB Page No 156 Item No 20.6 and20.6.1								
	8th Cross	**Cum**	1	82.00	0.90	0.20	14.76		
	6th Cross		1	86.00	0.90	0.20	15.48		
	4th Cross (1st Main To2nd Main)		1	84.00	0.90	0.20	15.12		
	5th Cross (3rd Main To SWD Drain)		1	80.00	0.90	0.20	14.40		
	4th Cross (3rd Main To SWD Drain)		1	84.00	0.90	0.20	15.12		
	1st Cross		1	84.00	0.90	0.20	15.12		
	17th A Cross		1	35.00	0.90	0.20	6.30		
	17th B Cross		1	35.00	0.90	0.20	6.30		
	2nd Cross		1	86.00	0.90	0.20	15.48		
	8th Cross		2	82.00	0.45	0.15	11.07		
	6th Cross		2	86.00	0.45	0.15	11.61		
	4th Cross (1st Main To2nd Main)		2	84.00	0.45	0.15	11.34		
	5th Cross (3rd Main To SWD Drain)		2	80.00	0.45	0.15	10.80		
	4th Cross (3rd Main To SWD Drain)		2	84.00	0.45	0.15	11.34		
	1st Cross		2	84.00	0.45	0.15	11.34		
	17th A Cross		2	34.00	0.45	0.15	4.59		
	17th B Cross		2	34.00	0.45	0.15	4.59		
	2nd Cross		2	86.00	0.45	0.15	11.61		
							206.37	**1582.58**	**326597.03**

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5	KSSRB M600-1 Construction Of **dry lean cement concrete mix CC1:5:10** With OPC cement @160kgs,with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum sub-base over a prepared sub-grade with (course and fine aggregate conferming to IS:383) aggregate cement ratio not to exceed 15:1. Aggregate gardation after blending to br as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be less than 10Mpa at 7days, mixxed in a batching plant, transported to site, laid with a paver with electronic sensor, comacting with 8-10 tonnes vibratory roller,finishing and curing complete asper Specification KSSRB:Page No 176, Item No 22.2 and 22.2.1								
	8th Cross	**Cum**	1	82.00	0.90	0.15	11.07		
	6th Cross		1	86.00	0.90	0.15	11.61		
	4th Cross (1st Main To2nd Main)		1	84.00	0.90	0.15	11.34		
	5th Cross (3rd Main To SWD Drain)		1	80.00	0.90	0.15	10.80		
	4th Cross (3rd Main To SWD Drain)		1	84.00	0.90	0.15	11.34		
	1st Cross		1	84.00	0.90	0.15	11.34		
	17th A Cross		1	35.00	0.90	0.15	4.73		
	17th B Cross		1	35.00	0.90	0.15	4.73		
	2nd Cross		1	86.00	0.90	0.15	11.61		
	8th Cross		2	82.00	0.45	0.15	11.07		
	6th Cross		2	86.00	0.45	0.10	7.74		
	4th Cross (1st Main To2nd Main)		2	84.00	0.45	0.10	7.56		
	5th Cross (3rd Main To SWD Drain)		2	80.00	0.45	0.10	7.20		
	4th Cross (3rd Main To SWD Drain)		2	84.00	0.45	0.10	7.56		
	1st Cross		2	84.00	0.45	0.10	7.56		
	17th A Cross		2	34.00	0.45	0.10	3.06		
	17th B Cross		2	34.00	0.45	0.10	3.06		
	2nd Cross		2	86.00	0.45	0.10	7.74		
							151.11	**3986.66**	**602424.19**
6	Proveding and Laying plain reinforced cement concrete for side drains using m20 nominul mix concrete with OPC cement 300kgs. With 20mm and down size ganite metal course aggregates @0.69cum and fine aggregates @0.43cum machine mixed,well compacted for walls and bottom including centring,shuttring,cost of materails, HOM of machinaries. Complete Excluding cost of steel asper MORTH Specification no1500,1700,2200. Wall And Bottom thickness 15cm KSSRB Page No 265 Item No 37.59 and 37.59.2								
	Drain Rafi Concrete	**Cum**	2	30.00	0.90	0.15	8.10		
			1	35.00	0.90	0.15	4.73		
	Side Wall		4	30.00	0.15	0.75	13.50		
			2	35.00	0.15	0.75	7.88		
							34.20	**11032.48**	**377310.82**
7	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.**M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Page o 177 Item No 22.6.1**								

	8th Cross	**Cum**	1	82.00	4.50	0.15	55.35		
	6th Cross		1	86.00	4.50	0.15	58.05		
	4th Cross (1st Main To2nd Main)		1	84.00	4.50	0.15	56.70		
	5th Cross (3rd Main To SWD Drain)		1	80.00	4.50	0.15	54.00		
	4th Cross (3rd Main To SWD Drain)		1	84.00	4.50	0.15	56.70		
	1st Cross		1	84.00	4.50	0.15	56.70		
	17th A Cross		1	35.00	4.00	0.15	21.00		
	17th B Cross		1	35.00	4.00	0.15	21.00		
	2nd Cross		1	86.00	4.50	0.15	58.05		
							437.55	**6217.96**	**2720668.40**
8	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500. Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17								
	For RCC Drian	Tonnes		**34.20**	x	60kgs	2.05		
						Say	**2.05**	**60103.06**	**123331.48**
9	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. for concrete pavement Page No.178/ Item No.22.8, 22.8.1/ PWD SR 2016-17								
	8th Cross	**Rmt**	1	5.00	4.50		22.50		
	6th Cross		1	4.00	4.50		18.00		
	4th Cross (1st Main To2nd Main)		1	4.00	4.50		18.00		
	5th Cross (3rd Main To SWD Drain)		1	4.00	4.50		18.00		
	4th Cross (3rd Main To SWD Drain)		1	8.00	4.50		36.00		
	1st Cross		1	8.00	4.50		36.00		
			1	8.00	4.00		32.00		
			1	7.00	4.00		28.00		
							208.50	**121.90**	**25416.15**
10	Providing & laying reinforeced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
		Sqm	2	37.00		0.75	55.50		
			1	35.00		0.75	26.25		
	Missing Slabs		95	0.60		0.75	42.75		
							124.50	**1680.00**	**209160.00**

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						Sub Total	4586526.80
11	Miscellaneous and Other Charges						412787.41
12	Rounding off						685.79
						Grand Total	5000000.00
(Rupees Fifty Lakhs Only)							

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2016-17
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.
5 This work is not included in any other estimate.

Asst Engineer
Ward No-13

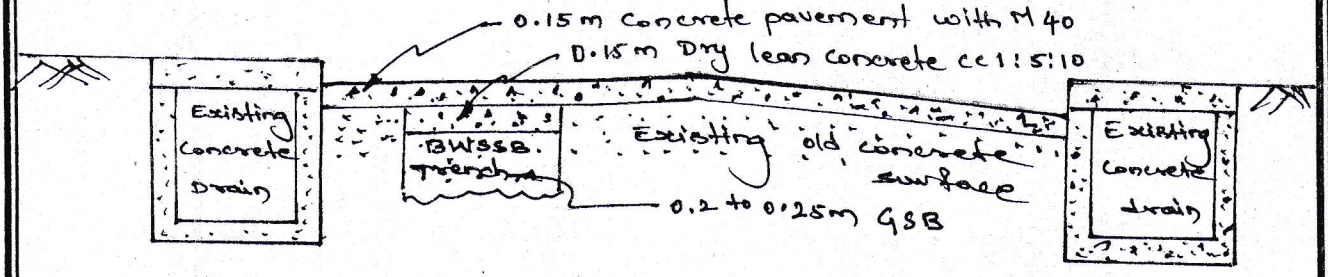
Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

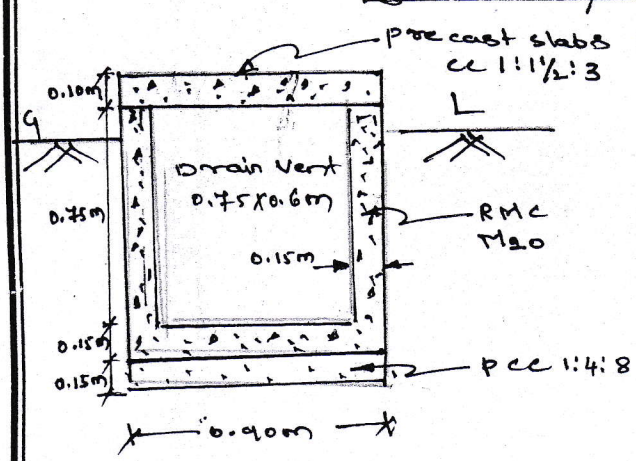
ನಂ. JC/D/AS/PM/102/16-17 ದಿನಾಂಕ : 28/3/17
ರೂ. Rs. Fifty Lakhs Only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/TS/13/2017-18 ದಿನಾಂಕ : 13/04/2017
ರೂ. Rs. fifty lakhs only/-
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

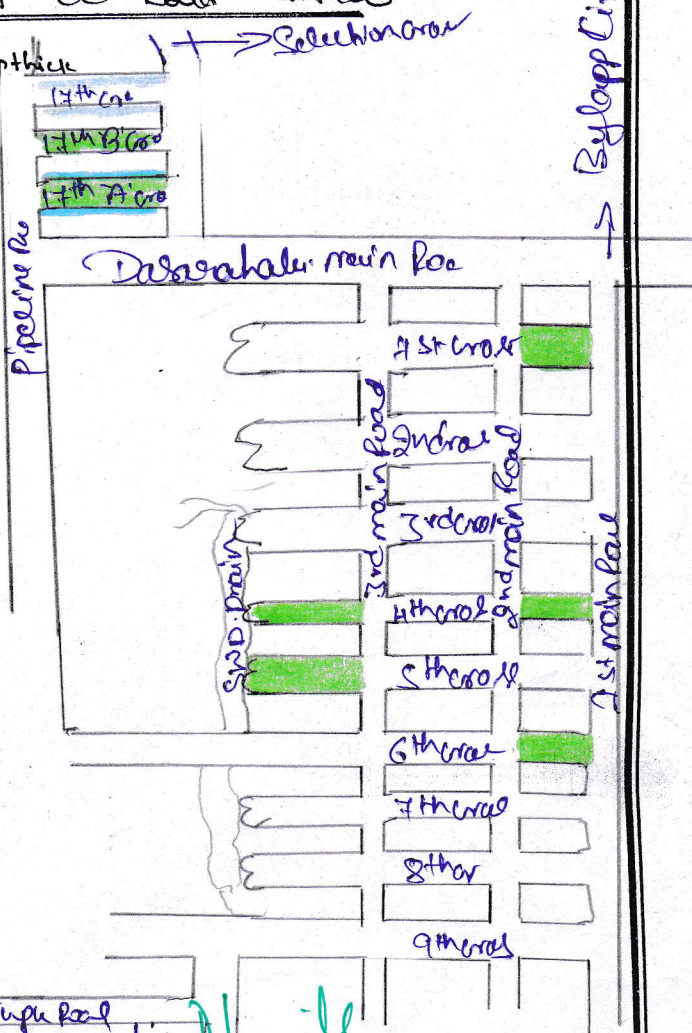
Name of Work Improvements of cc roads 1st, 8th & 2nd Main Dead End Roads Maheshwari Nagara Ward No. 13, Shettyhalli Sub Division


Carriage way 3 to 4.5m
0.15m Concrete pavement with M40
0.15m Dry lean concrete cc 1:5:10
Existing concrete Drain
BWSSB Trench
Existing old concrete surface
0.2 to 0.25m GSB
Existing concrete drain

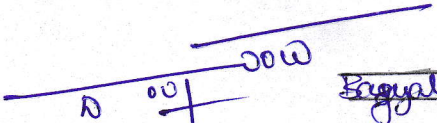
Typical c/s of cc Road Surface



c/s of RCC drain



Index -
CC Road
Drain -



Asst.Engineer
Ward No.13

Asst.Executive Engineer
Shettyhalli Sub Division, Dasarahalli Zone
BBMP Bangalore.

Old KEB